CINT2000 Result

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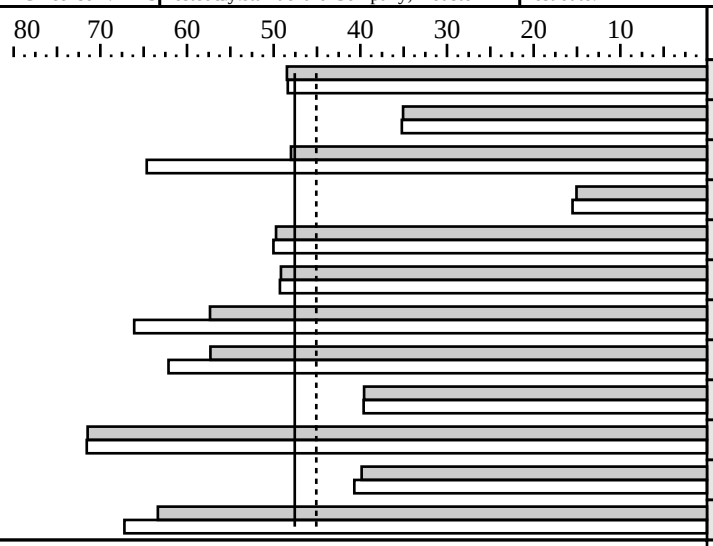
Hewlett-Packard Company

ProLiant DL580 G2(2.8GHz, Intel Xeon MP)

SPECint_rate2000 = 47.6

SPECint_rate_base2000 = 45.1

SPEC license #: 3 Tested by: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	134	48.5	4	134	48.4
175.vpr	4	185	35.1	4	184	35.2
176.gcc	4	106	48.0	4	79.0	64.6
181.mcf	4	555	15.1	4	538	15.5
186.crafty	4	93.3	49.7	4	92.8	50.0
197.parser	4	170	49.2	4	169	49.3
252.eon	4	105	57.3	4	91.3	66.1
253.perlbmk	4	146	57.3	4	134	62.1
254.gap	4	129	39.6	4	129	39.6
255.vortex	4	123	71.5	4	123	71.6
256.bzip2	4	175	39.8	4	171	40.7
300.twolf	4	220	63.4	4	207	67.2

Hardware

CPU:	Intel Xeon MP (2.8GHz, 400MHz bus)
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip (Hyper-Threading disabled)
CPU(s) orderable:	1,2,4
Parallel:	No
Primary Cache:	12K micro-ops I + 8KBD on chip
Secondary Cache:	512KB(I+D) on chip
L3 Cache:	2048KB(I+D) on chip
Other Cache:	N/A
Memory:	16x512MB PC1600
Disk Subsystem:	2x18.2GB 15K Ultra3 SCSI
Other Hardware:	

Software

Operating System:	Windows 2000 Advanced Server(Build 2195 SP3)
Compiler:	Intel C++ Compiler 7.1 Build 20030801Z Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 7.0
File System:	NTFS
System State:	Hyperthreading disabled in BIOS

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
Base tuning for C programs:   -QxW -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip:  -QxW -Qipo -O3 +FDO ONESTEP=yes
175.vpr:  -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc:  -QxW -Qipo -O3 -Oi- +FDO ONESTEP=yes
181.mcf:  -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty:  -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser:  -QxW -Qipo -O3 -Oa +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbmk: -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Qipo -Oa +FDO ONESTEP=yes
```

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Notes/Tuning Information (Continued)

```
300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
```